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Patents Cited by Inventor: 0
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Patent Number(s):
JP7001447-A

Title:
Blocking resistant polyester pellets - prepd. by extruding melted polyester into strands, cutting into pellets, granulating and blending with polyester pellets

Patent Assignee Name(s) and Code(s):
TORAY IND INC (TORA)

Derwent Primary Accession Number:
1995-077562 [79]

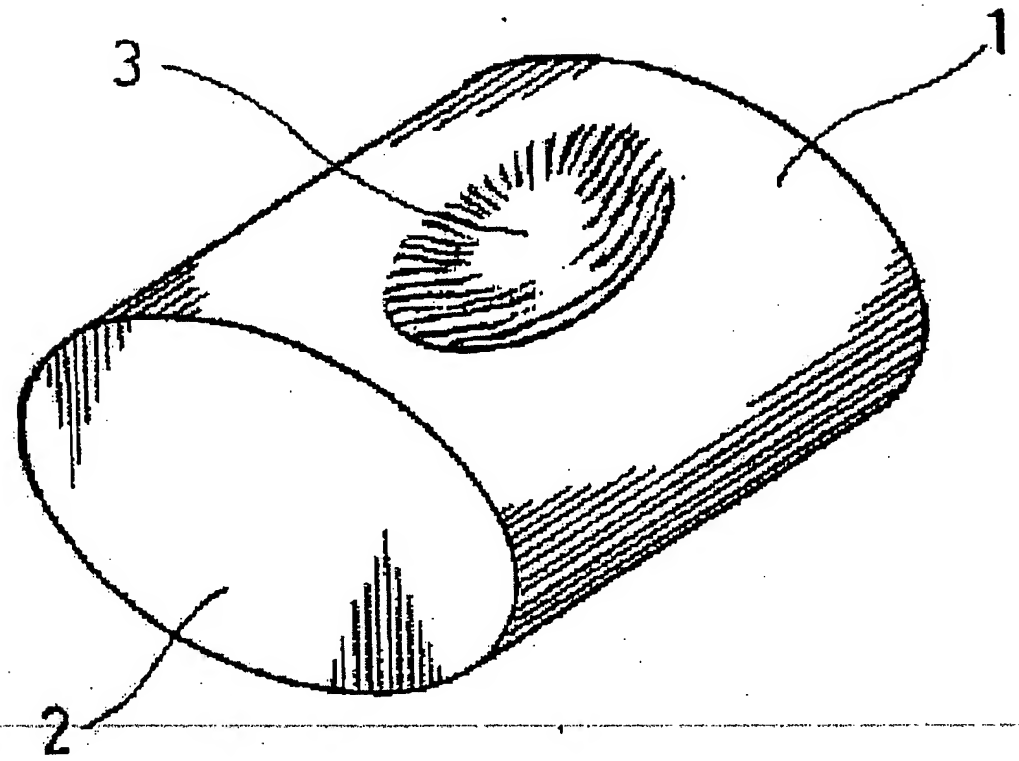
Abstract:
Melted polyester, pref. PET or polybutylene-terephthalate, is moulded into cylindrical or elliptical cylindrical pellets. Solidified pellet has at least 1 hollow on the surface which is 1/30 to 1/5 as large as the side surface area of the cylinder. Then, the pellets are granulated on their surface. The difference of surface roughness between the roughness before granulation and that after granulation is more than 0.4 micron.

Also claimed is the prepn.. Melted polyester is extruded from small holes with a round or oval section (ratio of long dia. to short dia. is 1-4) into strands. Half melted strands are cut into pellets with at least 1 hollow on the surface. The pellets are granulated. At least 50 wt.% of the obtd. pellets are blended in ordinary polyester pellets.

ADVANTAGE - The pellets are stably fed into a moulding machine without adhesion together. Prepn. is simple by using an available rice cleaning machine.

In an example, polybutylene terephthalate melted at 245 deg.C was extruded from 8.5 mm dia. round holes into strands and quenched with water while taking off at 10 m/sec.. Half solidified strands were cut 3.2 mm long and cooled to solidify into pellets with oval section, with 3 mm long dia. and 2.5 mm short dia.. The pellets had a hollow 0.2 mm deep, and 2.5 mm2 area. The pellets were granulated with a rice-cleaning machine to give a rough surface. The difference of surface roughness before and after granulation was 0.56 micron. The pellets had blocking resistance.

Drawing:



International Patent Classification:
B29B-009/06; B29B-009/12; B29K-067:00

Derwent Class:
A32 (Polymer fabrication (moulding, extrusion, forming, laminating, spinning)); A23 (Polyamides, polyesters, polycarbonates, alkyds)

Derwent Manual Code(s):
A05-E01C; A11-A04; A11-B07B; A12-S09A

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